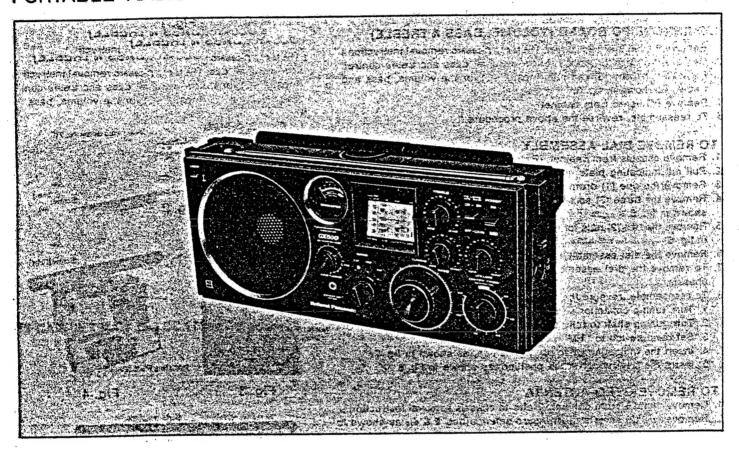
Service Manual

FM-AM 4 BAND PORTABLE RADIO

RF-1130LB



SPECIFICATIONS

Frequency Range:

FM 87.5~108 MHz

145~355 kHz (2060~845m) LW

MW 520~1610 kHz (577~186m)

SW 5.9~18 MHz (50.8~16.7m)

Intermediate Frequency: FM 10.7 MHz

Sensitivity:

AM (LW, MW & SW) 455 kHz FM 2₄V for 30 dB Quieting LW 100 µV/m for 50mW Output MW 30µV/m for 50mW Output

SW 3µV/m for 50mW Output

Power Output:

Power Source:

3.3W Maximum AC 110~125V/220~240V 50-60 Hz

or 6V (Four "C" Size Flashlight

Batteries)

(National UM-2 or equivalent)

Power Consumption:

Speaker: Dimensions:

Weight:

Impedance:

7W (AC Only)

12cm(5") PM Dynamic Speaker

340(Wide) $\times 144$ (High) $\times 83$ (Deep)mm

(133"×5型"×3量")

1.92 kg. (4 lb. 3.7 oz.) without

batteries

Speaker.....80 Earphone Jack.....80

FM Antenna Terminal750

DIN Jack

Phone1Mo Recording Out70kg

Specifications are subject to change without notice for further improvement.

TO REMOVE CHASSIS

- 1. Remove the three (3) knobs for the tuning, fine tuning and band.
- 2. Lift up the gyro-antenna.
- 3. Remove the battery cover.
- 4. Remove the five (5) screws (nos. 1~5) for the cabinet back cover, as shown in fig. 1.
- 5. Remove the cabinet back cover.
- 6. Pull out sockets from chassis.
- 7. Remove the seven (7) red screws (nos. 1~7) for the chassis, as shown in fig. 2.
- 8. Lift up the telescopic antenna.
- 9. Remove chassis from cabinet.
- 10. To reassemble, reverse the above procedure.

TO REMOVE PC BOARD (VOLUME, BASS & TREBLE)

- 1. Remove the cabinet back cover. (Refer to chassis removal instruction.)
- 2. Remove the three (3) knobs for the volume, bass and treble control.
- 3. Remove the three (3) red nuts (nos. 1~3) for the volume, bass and treble, as shown in fig. 3.
- 4. Remove PC board from cabinet.
- 5. To reassemble, reverse the above procedure.

TO REMOVE DIAL ASSEMBLY

- 1. Remove chassis from cabinet. (Refer to chassis removal instruction.)
- 2. Pull out indicating plate, as shown in fig. 4.
- 3. Remove the one (1) drum screw, as shown in fig. 4.
- 4. Remove the three (3) screws (nos. 1, 3 & 4) for the dial assembly, as shown in fig. 5.
- 5. Remove the two (2) nuts for the fine tuning and band switch, as shown in fig. 6.
- 6. Remove the dial assembly from chassis.
- 7. To remove the dial assembly completely, unsolder lead wires from chassis.
- 8. To reassemble, reverse the above procedure and note the following.
 - 1. Turn tuning capacitor shaft to fully counter-clockwise.
 - 2. Turn tuning shaft to fully counter-clockwise.
 - 3. Set band switch to "FM" position.
 - 4. Insert the indicating plate at the position, as shown in fig. 7.
 - 5. Insert the fine tuning at the position, as shown in fig. 8.

TO REMOVE GYRO-ANTENNA

- 1. Remove chassis from cabinet. (Refer to chassis removal instruction.)
- 2. Remove two (2) screws for the gyro-antenna (nos. 2 & 4), as shown in fig. 5.
- 3. Remove gyro-antenna from chassis.
- To remove gyro-antenna completely unsolder lead wires from chassis, as shown in fig. 5.
- 5. To reassemble reverse the above procedure.

TO REMOVE FERRITE ANTENNA

- 1. Remove gyro-antenna cover in the direction of arrow, as shown in fig. 9.
- 2. Unsolder lead wires from ferrite antenna, as shown in fig. 10.
- 3. To reassemble, reverse the above procedure.

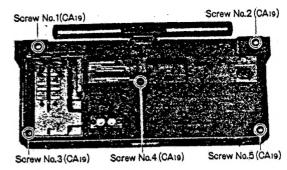


Fig. 1

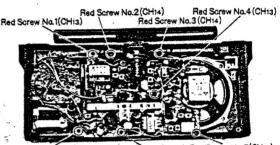


Fig. 2

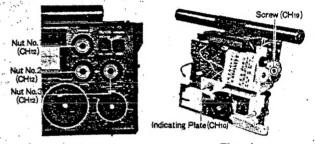
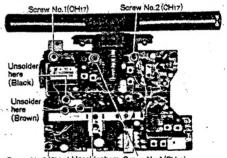


Fig. 3

Fig. 4



No.3 (CH17) Unsolder I

Fig. 5

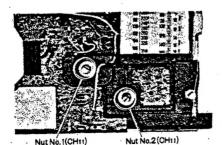


Fig. 6

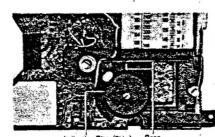


Fig. 7

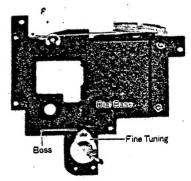


Fig. 8

DIAL CORD INSTALLATION GUIDE

- 1. Remove chassis from cabinet. (Refer to chassis removal instruction.)
- 2. Dial cord length is 90 cm (357").
- 3. Loosen dial drum screw, as shown in fig. 12.
- 4. Set each dial drum at the position, as shown in fig.12.
- 5. Arrows (1~10) indicate correct order and direction of cord installation, as shown in fig. 12.
- 6. Cement dial cord ends.
- 7. Turn tuning shaft fully counter-clockwise.
- 8. Set start point of the dial with the boss, as shown in fig. 11.
- 9. Tighten the drum screw, as shown in fig. 12.

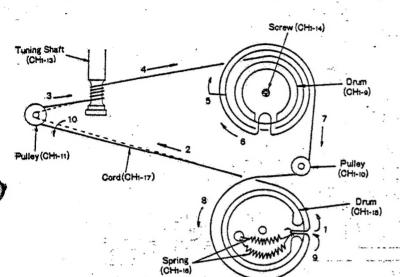


Fig. 12

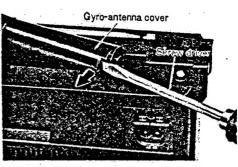


Fig. 9

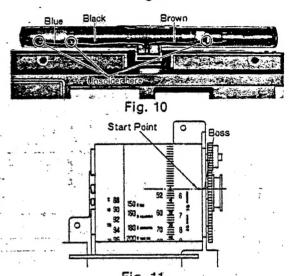
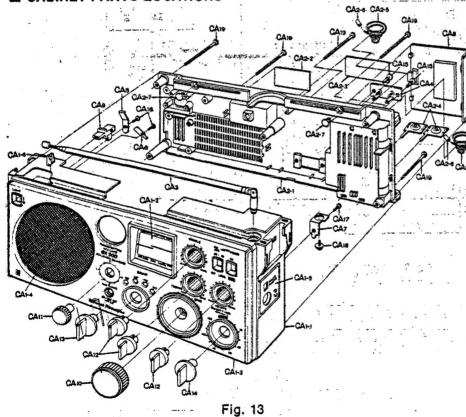


Fig. 11

CABINET PARTS LOCATIONS



■ CHASSIS PARTS LOCATIONS

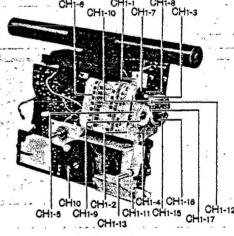


Fig. 14

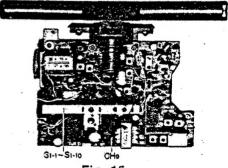


Fig. 15

2. REMARKS

- Set volume control to minimum.

- Set power source voltage to 6 volts DC.

 Adjust R44 so that the pointer of meter stays as shown in figure right.



ALIGNMENT INSTRUCTIONS

		READ C	AREFULLY RE	FORE ATTEND			·	
	Notes:			FORE ATTEMP	TING A	IGNMENT		
•	Set volume con Set bass contro Set treble contr. Set band select Set power switc	I to MAX. of to MAX. or switch to FN h to ON.	A. LW, MW or SV	V. 9. Output o	er source	- 1i	och to DX or OFF (FM) rolts DC. d be no higher	
	SWEEP GEN CONNECTIONS	NERATOR or NERATOR FREQUEN	RADIO D SETTING ICY (DISTANC	AL INDICATO	20	ADJUSTMENT		
	Fashion loop of		L	W ALIGNMENT		47		
(1)	several turns of wir and radiate signal into loop of receive	30% Mo	Point of no	n- Output met	ter •	T ₂ (1st IFT) T ₄ (2nd IFT)	Adjust for maximu output.	
(2)	7 145 kHz		145 kHz [Fig. 20]		(*1	La (OSC Coil)La (ANT Coil)	moving coil bobbie	
(3)		350 kHz				(OSC Trimmer) (ANT Trimmer)	Adjust for maximu output. Repeat ster (2) and (3).	
			MV	V ALIGNMENT				
4)		550 kHz	550 kHz [Fig. 22]		(+1)	.10 (OSC Coil) L7 (ANT Coil)	Adjust for maximum output. Adjust L ₇ by moving coil bobbin along ferrite core.	
7	(*1) Cement antenn	1500 kHz	1500 kHz [Fig. 23]			(OSC Trimmer) (ANT Trimmer)	Adjust for maximum output. Repeat steps (4) and (5).	
	(*1) Cement antenr	With Indoor	wax after compl	eting alignment.		rimmer)	(1) 4114 (5).	
9	onnect to point TP:	1	sw	ALIGNMENT				
20 20	arough 10PF apacitor, Common point E	5.9 MHz	5.9 MHz [Fig. 24]		43	(OSC Coil) (ANT Coil)	Adjust for maximum output.	
		18 MHz	18 MHz (Fig. 25)		C75	(OSC Trimmer)	Adjust for maximum output. Repeat steps (6) and (7).	
H	gh side thru.			ALIGNMENT				
Ne	001 µF to point TP2. Dommon to chassis. egative side to int E.	10.7 MHz (400 kHz SWP.)	Point of non- interference. (on/about 90 MHz).	Connect vert. amp. of scope to point TP3 Negative side to point E.	T5 (FN	2nd IFT)	Adjust for maximum amplitude and proper linearity between ± 100 kHz markers. (Refer to fig.17.)	
	*			,	Ts (FM	3rd IFT)	Adjust T ₈ so that 0.7 MHz marker	
Co	nnect to point TP1		FM-RF	ALIGNMENT			Refer to fig.18.)	
ant	ough FM dummy enna. Negative side nt to (E). fer to fig.19).	87.2 MHz	Variable capacitor fully closed.	Output meter across voice coil.	Ls (FM	osc coil) (* 2)Adjust for maxi- mum output.	
-	*	90 MHz	Tune to signal.	"	L3 (FM Tur	ning Coil)	2)Adjust for maxi- mum output.	
		106 MHz	106 MHz (Fig. 26]	ing is the center f		rimmer)	2)Adjust for maxi- mum output. Repeat steps	

ALIGNMENT POINTS

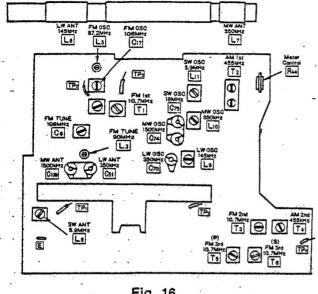


Fig. 16

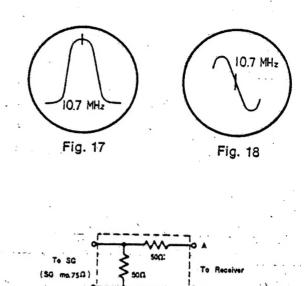
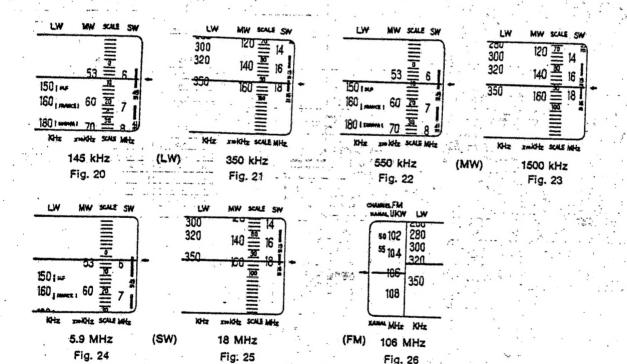


Fig. 19 FM Dummy Antenna



CHASSIS PARTS LOCATIONS

ACCESSORIES AND PACKING MATERIALS

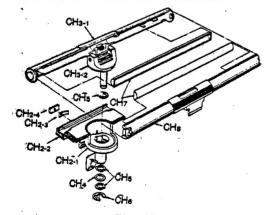
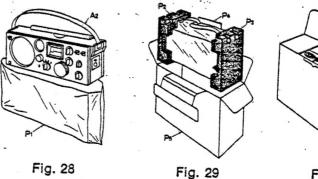


Fig. 27



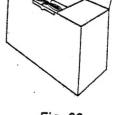


Fig. 30

RF-1130LB 7

ı)m

...8 .75

1M 70k

·0.

REPLACEMENT PARTS LIST..... Model RF-1130LB

Notes: 1.Part numbers are indicated on most mechanical parts.

Please use this part number for parts orders.

2.X-Z rank: X rank parts will cover 80% of repair needs

2.X-Z rank: X rank parts will cover 80% of repair needs.
X+Y rank parts will cover 95% of repair needs.

Z rank parts are less necessary.

3. mmm Indicates that only parts specified by the manufacturer be used for replacement in critical circuit.

Ref. No.	Part No.	Part Name & Description at	Per Set	Remarks
1	INTEGRATED	CIRCUIT, TRANSISTORS AND DI	ODES	
IC	AN210	IC(Si), FM-AM IF Amplifier	1	T x
TR1,6	28K49	Transistor(Si), FM RF Amplifier, AM RF Amplifier	2	x
TR2	28C1359	Transistor(Si), FM Oscillator	11	X
TR3,4,7,8	2801675	Transistor(Si), FM-AM Mixer, FM	1 4	x
mnr		1st IF Amplifier, AM Oscillator		,
TR5	280829	Transistor(Si), FM 2nd IF	1	X
TRO	280828	Amplifier	1.1	
TRIO	2801327	Transistor(Si), Meter Amplifier	1	X
TR11.13	28C945	Transistor(Si), PRE Amplifier	1	X
		Transistor(Si), let AF Amplifier, Ripple Filter	2	X
TR12	28B173	Transistor(Ge), 2nd AF Amplifier	l i	
TR14,15	2801568	Transistor(Si), Power Amplifier	2	Î
D1	182687AA	Diode (Si), FM AFC	lĩl	x
D2,6,7	OA90	Diode (Ge), AM D.AGO, AM	3	x -
•		Detector & AGC, FM Rectifier		1 "
D3,4,11	RVDVD1251L	Diode (Si), Power Operation	3	X
		Compensator, Operation	1N	
		Compensator	9 -	1.124 4
D5,14	MA150	Diode (Si), Switching	2	X
D8,9	2-OA90	Diode (Ge), FM Detector	1 Pair	X
D10	RVDVD1150L	Diode (Si), Power Operation	1	X
D12,13	RVDSM102LF	Compensator		4.11
D16,10	WADDWIOSTE.	Diode (Si), AC Rectifier	2	X
	1 :		·	
	CERAMIC FI	LTER, COILS AND TRANSFORM	ERS	
CF1,2	RVFCF10M12FR	Ceramic Filter, FM	2	x
Ll	RLQY3081-0	Trap Coil	lĩl	Ŷ
L2	RLA4Y6-O	Coil, FM Antenna	i	X
L3	RLD4N30-0	Coil, FM Detector	1	X
L4	RLI4M103	Coil, FM IF Trap	1	X
L5	RLO4N22	Coil, FM Oscillator	1	X
L6,7	RLF6G23-O	Coil, LW-MW Ferrite Antenna	1	OX
L8	RLA3M10-K	Coil, SW Antenna	1:	OX
L9 L10	RLO1M1	Coil, LW Oscillator	1	OX
L11	RLO2M6	Coil, MW Oscillator	1	OX ·
L12,13,15	RLO3M30-K	Coil, SW Oscillator	1	οx
L12,13,15 L14	RLQY1104-0	Coil, Choke	3	Y
T1	RLQY1583-0 RLI4M301	Coil, Choke IFT, FM	1	Y
	I WITH A MOOT	IAPA, PM	1 1 1	l x

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
T2	RL17W112-T	IPT, AM	1	×
T3		IFT, FM	lil	X
			- 1	l î
T4	RLI2M402	IFT, AM	1	
T5	RLI4M501	IPT. PM	1	X
T6	RLI4M502	IFT, FM	1	X
T7 - 1	RLT3F41	Input Transformer, Imp.	1 1	l x
7		P-700Ω:8-1ΚΩ	-	
ma ·			1.	
T8	RLT2H25-V	Output Transformer, Imp.	1	X
N 400 W	1	P-750:8-80		
T9	RLT5J188-W	Power Transformer	1	OX more
	· .		1	1
	V	ARIABLE RESISTORS	J	
nee	Imurayanasa	[T
R66	EVHOXAF25D54	Variable Resistor, 50KΩ(D),	1	OX
		Volume Control		
R62,65	EVHOXAF25B54	Variable Resistor, 50KΩ(B), Bass	2	OX
		& Treble Control		
R44	EVLT4AAOOB13	Semi-Fixed Variable Resistor,	1	l x
		IKΩ(B), Meter Control	*	^ ·
1.	1	Tru(D), mater Courtor		
	1			
		VARIABLE CAPACITORS '	1	
C7,16,57,78	RCVCY41C153	Muning Consolter	,	
		Tuning Capacitor	1	X
C70	RCV1T-16M	Trimmer Capacitor	1	X
C51,74,75,	RCV2T-16M	Trimmer Capacitor	2	X
109				
08,17	RCVCTY12B218	Trimmer Capacitor	2	X
079	ECV-1YWO2D73A	Fine Tuning Capacitor	1	X
		January Saparotos	1	"
)	. CO	MPONENT COMBINATIONS	l3	
	,	T		· · · · · · · · · · · · · · · · · · ·
Z1	RXABPF10801H	Comonent Combination, Coil &	1	Y
		Capacitor	j i	
Z2	EXAF203Z471R	Component Combination, 0.01 µF×2.	11	Y
•		4700	-	1
Z3	EXA5DL04CC		1, 1	V
	myyontingon	Component Combination, 330PF×3.	1	Y
C 4	DV . W. O.	4.7K0×2		1
24	RXAF103P22HD	Component Combination, $0.01\mu\text{F}\times2$	1	Y
·		SPEAKER	Il	
				
· · · · · · · · · · · · · · · · · · ·				
SP	EAS12P788B	Speaker, 12cm(5") PM Dynamic	1	ο χ
sp	EAS12P788B	Speaker, 12cm(5") PM Dynamic Speaker, Imp.8Ω	1	ох
SP .	EAS12P78SB	Speaker, Imp.8Ω	1	ox
	EAS12P76SB		1	ох
	EAS12P76SB	Speaker, Imp.8Ω		
81-1~81-10	RSR116ZK-P	Speaker, Imp.80 SWITCHES Switch, Band	1	ох
81-1~81-10 82-1,82-2	RSR116ZK-P RST59X-G	SWITCHES Switch, Band Switch, FM AFC, LW/MW SENS	1 1	ox x
81-1~81-10 82-1,82-2 84	RSR116ZK-P RST59X-G RST59V-G	SWITCHES SWITCHES Switch, Band Switch, FM AFC, LW/MW SENS Switch, Power	1 1 1 1	ox x
81-1~81-10 82-1,82-2 84 85	RSR116ZK-P RST59X-Q RST59V-G RSE50Z-T	Speaker, Imp.80 SWITCHES Switch, Band Switch, FM AFC, LW/MW SENS Switch, Power Switch, Timer	1 1 1 1 1	OX X OX
81-1~81-10 82-1,82-2	RSR116ZK-P RST59X-G RST59V-G	SWITCHES SWITCHES Switch, Band Switch, FM AFC, LW/MW SENS Switch, Power	1 1 1 1	ox x ox:

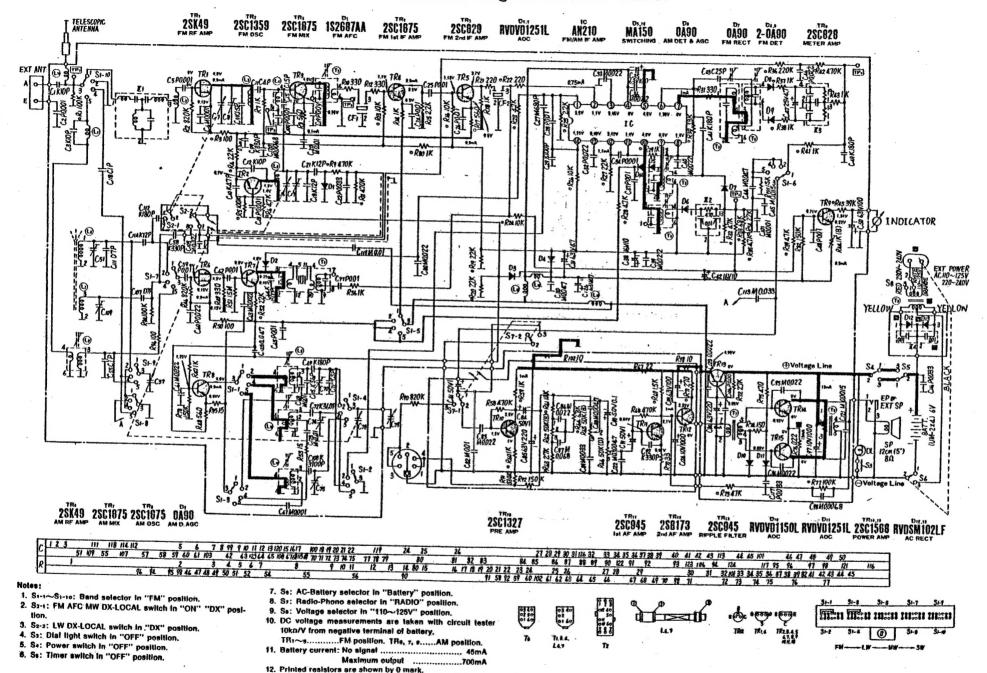
Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
	4	RESISTORS		
R7,14,18,47,	ERD25TJ102	1KO, %Watt, ±5%, Carbon	5	Z
R2,46,90	ERD25TJ824	820Kn, %Watt, ±5%, Carbon	3	Z
R55,95	ERD25TJ150	15Ω. %Watt, ±5%, Carbon	2	Ž
R50,96	ERD25TJ101	100Ω, 36Watt, ±5%, Carbon	2	z
R67	ERD25TJ220	220, %Watt, ±5%, Carbon	l î l	Ž
R74	ERD25TJ151	1500, 3Watt, ±5%, Carbon	lil	Ž
R21	ERD25TJ221	220Ω, %Watt, ±5%, Carbon	1 i	Ž
R10,12,49	ERD25TJ331	330Ω, %Watt, ±6%, Carbon	3	Z
R75	ERD25TJ471	470Ω, %Watt, ±5%, Carbon	lil	Z
R48,81	ERD25TJ561	580Ω, %Watt, ±5%, Carbon	2	Z
R15	ERD25TJ222	2.2KO, %Watt, ±5%, Carbon	11	Z
R72	ERD25TJ272	2.7KO, 36Watt, ±5%, Carbon	1	Z
R94	ERD25TJ104	100KΩ, %Watt, ±5%, Carbon	1	Z
R78,82,92	ERD25TJ154	150KΩ, %Watt, ±5%, Carbon	3	z
R91	ERD25TJ334	330Kn, 3Watt, ±5%, Carbon	1	Z
R58,68	ERD25TJ474	470KΩ, %Watt, ±5%, Carbon	2	Z
R98,102	ERD25TJ100	100, 36 Watt, ±5%, Carbon	2	Z
R70	ERD25TJ330	33Ω, %Watt, ±5%, Carbon	1 1	2
R101	ERD25TJ153	15KO, %Watt, ±5%, Carbon	1	Z
R76	ERX12ANJR22	0.220. %Watt, ±5%, Metal Oxide	1	2
R51	ERD18VJ155	1.5MΩ, %Watt, ±5%, Carbon	1	2
			1.1	
	<u> </u>			
		CAPACITORS		
C55,118	ECCD1H010C	1PF, 50WV,±0.25PF,Ceramic	2	Z
C15	ECCD1H1R5C	1.5PF, 50WV,±0.25PF,Ceramic	11	Z
C43	ECCD1H2R5C	2.5PF, 50WV,±0,25PF,Ceramic	11	2
C11	ECCD1H040C	4PF, 50WV,±0.25PF,Ceramic	1	Z
C71	ECCD1H050CC	5PF, 50WV,±0.25PF,Ceramic	11	2 2
C107,111	ECCD1H070DC	7PF, 50WV,±0.5PF, Ceramic	2	
C1,3,12	ECCD1H100KC	10PF, 50WV,±10%, Ceramic	3	2
C21,114	ECCD1H120KC	12PF, 50WV,±10%, Ceramic	2	Z
C9	ECCD1H150KC	15PF, 50WV, ±10%, Ceramic	1	Z
C10 C115	ECCD1H470KC	47PF, 50WV,±10%, Ceranic	1	Z
C18 .	ECCD1H560KC	56PF, 50WV,±10%, Ceranic	1	Z
C29	ECCD1H120KU ECCD1H101K	12PF, 50WV,±10%, Ceramic	1	Z
C41,49,112	ECCD1H101K	100PF, 50WV,±10%, Ceramic 180PF, 50WV,±10%, Ceramic	1 2	Z
C58,92,99	ECCDINISIK	180PF, 50WV,±10%, Ceramic 330PF, 50WV,±10%, Ceramic	3 3	Z
C2,5,13,34,	ECKE1H102PF	$0.001\mu\text{F}$, 50WV, \pm^{10} %, Ceramic	8	Z
100,106 C19,24,25,26 28,37,48,59		0.01μF, 50WV,±108%, Ceramic	11	Z
62,65,77			1	
C32,60	ECKE1H223PF	0.022μF, 50WV,±108%, Ceramic	2	Z
C27	ECKE1H681MD	680PF, 50WV, ±20%, Ceramic	1	Z
C6,67,101	ECKE1H102MD	0.001 µF, 50WV, ±20%, Ceramic	3	Z
C63,123	ECKE1H222MD	0.0022 µF, 50WV, ±20%, Ceramic	2	Z
C20,68,73,82,119	ECKE1H103MD	0.01 µF, 50WV, ±20%, Ceramic	5	Z
C33,36,39,40,46,61	ECKE1H223MD	0.022 µF, 50WV, ±20%, Ceramic	11	Z
80,86,95,96,103	1		1 1	1

Ref. No.	Part No.	Part Name & Description	Per Set	Remarks
098,120	ECKE1H682MD	0.0068µF, 50WV,±20%, Ceramic	1	Z,
C83,89,113	ECQG06333MZ	0.033µF, 50WV,±20%, Polyester	3	Z
087	ECQC05683MZ	0.068µF, 50WV,±20%, Polyester	1	Z
069	ECM805181J-H	180PF, 50WV,±5%, Mica	1	Z
072	ECQ81361JZ	360PF, 125WV,±5%, Styrol	1	Z
C64	ECQ81152KZ	1500PF, 125WV,±10%, Styrol	1	Z
0108	ECQ805392KZ	3900PF, 50WV,±10%, Styrol	1	Z
G121	ECQG05152MZ	0.0015µF, 50WV,±20%, Polyester	1	Z
C30,44,125	ECQC05473MZ	0.047µF, 50WV,±20%, Polyester		Z .
C31,126	ECEA16V47	47µF, 16WV, Electrolytic	2	. Y
C35,50,93	ECEA10V100	100 pF, 10WV, Electrolytic	3	Y
C85,94	ECEA6V220	220 µF. 6.3WV. Electrolytic	2	Y
C97,124	ECEA10V1000	1000 µF, 10WV, Electrolytic	2	Y
C38,42	ECEA16V10	10μF, 16WV, Electrolytic	2	, Y
C47	ECEA35V4R7	4.7 µF, 35WV, Electrolytic	1 2	Y
C81,84,91	ECEASOV1	1µF, 50WV, Electrolytic	3	Y
C22,118,117	ECKELH333PF	0.033 µF, 50WV, ±108%, Ceramic 0.015 µF, 50WV, ±20%, Ceramic	ı	Ž
045	ECKETH153MD	0.015 µF, 50WV, ±20%, Ceramic 0.0047 µF, 50WV, ±20%, Ceramic	2	z
C88,122	ECKE1H472MD ECEA5OZR1E		ĩ	Ý
C90	MORADOZATE	0.1μF, 50WV, Electrolytic	-	•
4.0				,
		L., ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
		CABINET		
CAL	RYMF1130LBXG	Cabinet Assembly	1	οx
CA1-1	(Cabinet Body Only	(1)	
CA1-2		Transparent Cover	(1)	
CA1-3	Not Available,	Indicating Plate, GX500, National	(1)	
	Order	Panasonic & etc. Mark		
OA1-4	RYMF1130LBXG	Metal Grille	(1)	
OA1-5		Indicating Plate, RADIO, PHONO	(1)	 -
	Thursday 1	& etc. Mark	١.	_
CA1-6	RMA5022B	Bracket (Plastic), Telescopic Ant.	1	OX
CA2	RYFF1130LBX0	Cabinet Back Cover Assembly Cabinet Back Cover Assembly	i	ox
UAR	RYFF1130LBXI	(Only for Italy)	1	~ ~
CA2-1	(Not Available,	Cabinet Back Cover	(1)	
7	Order	Indicating Plate, VOLTAGE	(i)	11
	RYFF1130LBXG	SELECTOR & AC IN Mark	1 "	
	or			
	RYFF1130LBXI			
CA2-2	RGX639Z	Ornament	1	Z
CA2-3	RGT487Z	Name Plate	1	oz
CA2-3	RGT487Y	Name Plate (Only for Italy)	1	oz
CA2-4	RJC205B	Terminal, Battery & Side	2	X
CA2-5	RJC603Z	Terminal (Spring), Battery Side	2	<u>x</u>
CA2-6	RJT398A	Connecting Pipe, Terminal	2	Z
CA2-7	RHG307A	Rubber Cushion, Gyro Ant.	2	Z
CA3	XEARR252EASY	Telescopic Amtenna Terminal Board, EXT ANT.	1	X
CA4	RJF1044Z RJT732-2	Terminal Board, EXT ANT. Terminal (Spring), Dial Light	i	l l v
CA5	אימפון נוח	Switch	1 -	11.
OAB	RJT482Z	Terminal, Dial Light Switch	1	Y
CA7	RMA139Z	Bracket (Metal), Telescopic Ant.	ī	OY
OAB	RKK9001Z	Battery Cover, Battery Compartment	li	X
1			1	I I "

										Toor	
								1		11	Yeman
			Ducton, Diat Light Bwitch	1 1	OX		1 1	RJJ30Z-H	Jack, EXT. Power Bource		
:	. 63. 1			1	OX		11	RJE10Z	Cover, EXT. Power Source Jack	11	Y
1301		RBN336Z	Knob, Tuning	* 1			1 1	RJ831-1	Jack, Phono & Rec Out	1) Y
8 1	OA11	RBN352Z	Knob, Fine Tuning	1	OX		1 1		Bracket, Radio Phono Selector	1	oz
		RBS94Z	Knob, Volume, Bass & Treble	3	OX		11	RMW125Z8	BLYCKOL' WARIO LUCIO DESCROT		oz
		RBB95ZK	Knob, Band	1	OX		CH9	RMY90Z	Heat Sink, Transistor	2	
					OX		ОН10	ROK597ZK	Indicating Plate, Band Belector	11	OY
		RBS96Z	Knob, ON/OFF Timer	1			Onio	RHQ632Z	Rubber Cushion, Timer	2	02
	CA15	SHRA403	Latch, EXT Ant. Terminal	2	OZ		41 ·			2	Z
		XTN23+6B	Screw, Dial Light Switch	2	Z			XRY35X7	Spacer, Timer		
- 1	OUTO	RINKS (OD	Terminal		1 5		1 1	XTN3+12B	Screw, Timer M'tg	2	Z
- 1	4			1	Z		11	XTW3+6L	Screw, Transformer M'tg	2	7
- 1	CA17 (XTN3+8B	Borew, Bracket (Telescopic Ant.)	+	1 *	·	1		Nut, Fine Tuning & Band	2	l Z
- 1			M'tg				CH11 (Fig. 6)	XNSB		1 - 1	
	CA18	XYN3+F68	Screw, Telescopic Ant. M'tg	1 1	Z		11		Selector M'tg		
		XTB3+45BFN	Screw, Cabinet Back Cover M'tg	6	Z		CH12(Fig.3)	XN88R	Nut (Red), Bass, Treble & Volume	3	, Z
ı	CA19	ATDST40DFM	Doles, Capitler Dack Cover at the	1 7 1	-		1 0111111111111111111111111111111111111	***************************************	Control M'tg		
- 1				l 1	1 .		11			. 5	Z
				1 1				XWV8	Washer, Fine Tuning, Band	. 0	12
1		l			1				Selector & etc. M'tg		
1			AULOGIC				CH13(Fig.2)	XTN3+10BR	Screw(Red), Chassis M'tg	3	2
1			CHASSIS		, , , , ,	4 - 4		XTN3+25BR	Screw(Red), Chassis M'tg	2	2
ł		1					CH14 (Fig.2)			ĩ	Ž
1	CH1	RYDF1130LBXG	Dial Assembly	1 1	OX		CH15(Fig.2)	XTW3+12ER	Screw(Red), Chassis M'tg		
1	CH1-1	10	Base, Dial	(1)			CH16(Fig.2)	XTW3+10ER	Screw(Red), Chassis M'tg	1	Z
1	OH1-2	11	Roller, Dial	(2)			CH17(Fig.5)	XTN3+8B	Screw, Gyro Ant. & Dial Base	3	Z
		11		(a)	1 1		Ousite 18.01	1	M'tg		
	CH1-3]] .	Shaft, Gear(Low Prequency Side)		1	: '	11			1	Z
	CH1-4	Not Available,	Gear, Roller (High Frequency Side)	(1)	8.		CH18(Fig.5)	XTW3+8B	Screw, Gyro Ant. & Dial Base	1 +	112
1	CH1-5	Order	Gear (Large), Dial	(1)	1 ."		11		M'tg		
- 1		RYDF1130LBXG	Circrip, Gear M'tg	(a)			CH19(Fig.4)	XYN26+C5	Screw, Dial Drum M'tg	1	l z
		[[RIDELISOLDAG			1 3		OH10(1.18-2)	1.11.001.00			1 1
	CH1-6	11	Dial	(1)			11		1	1	1 1
	CH1-7	1)	Gear, Low Frequency Side	(1)	1 3	•	11	1	1 '	Į.	1 1
1	CH1-8	11	Spring, Gear (Low Frequency Side)	(1)			11	1 .		- 1	11
	CH1-9	RDD200Z	Drum (Small), Dial	1	V		1		1		<u> </u>
1				1:	Y		1.1		ACCESSORIES		
	CH1-10	RDR21-1	Pulley, Dial	1			11		VCCEGGOUIFA		
	CH1-11	RDR20-3	Pulley, Dial	1	Y			1		1.	11.
	CH1-12	RDY31A	Shaft, Pulley	2	Z		11	XEH1A1-P	Earphone, Imp. 80	1	γ
	CH1-13	RDT9079Z	10: 0: 0:	1	OY		. I IA1	RJA20Z-K	Power Cord, AC	1	Yemm
	0117-12				Z		A2	RQC9011Z	Carring Belt	1	loy
		XUCR5FY	Circrip, Tuning Shaft	1			{ nc	MOOSOTIA .	Carring Dott	-	
	CH1-14 (Fig. 12)	XTW3+10E	Screw, Drum (RDD200Z) M'tg	1 1	Z		11	1		1	
		XWC3B	Washer, Drum (RDD200Z) M'tg	1	2						
	CH1-15	RDD304Z	Drum (Large), Dial	11	OY		11		PACKING MATERIALS		
	CH1-16	RDS40604A	Spring, Drum	2	OY						T-1
								mmn cor	Delwathwiana Cover	1	Z
	CH1-17	RDZ05A	Cord (500m), Dial	1 Roll	Y		P1	RPP192Z	Polyethylene Cover	li	Z
	CH2	RYE1F1130N	Gyro Antenna Base Assembly	1	OX		11	RPN9175Z	Pad Complete		112
	CH2-1	(Not Available,	Base, Gyro Antenna	(1)	1 .		P2	(Not Available,	Pad, Left Side	(1)	1 1
	CH2-2	Order	Indicating Plate	(1)	1		P3	Order	Pad, Right Side	(1)	1 1
	Olik-k		THUIDELING FIALE	(1)	1 1 2		11.0		11	1	1 1
		RYEIF1130N	4		"		1.1	RPN9175Z	1	1	OY
	CH2-3	RHR758Z	Stopper, Gyro Antenna	1	OZ		P4	RQX5943Z	Instruction Book		
	CH2-4	RNE914	Bracket, Stopper	11	lz		P5	RPK401Z	Gift Box	1	OY
	СНЗ	RYE2F1130N	Gyro Antenna Case Assembly	lī	lox		P5	RPK401Y	Gift Box (Only for Italy)	1	OY
			Coop Owns Andrews		1 100	•	11.0	1			11
	CH3-1	Not Available,	Case, Gyro Antenna	(1)	11:		11	1		1	1 1
	CH3-2	Order	Shaft, Gyro Antenna Case	(1)	11.		11		i i	- (11
		RYE2F1130N))	1	11.		11	1		1	11
	CH4	RUS238Z	Washer, Gyro Antenna Case M'tg	l'a	loz		11			1	11.
		DADOOG					11			1	1 1
71	CH5	RHE6021Z	Washer, Gyro Antenna Case M'tg		oz		- 11	1		- 1	1 1
70	СН6	XUC9FZ	Circrip, Gyro Antenna Case M'tg	1	OZ		11			- [11
-		RHR986Z	Cushion, Gyro Antenna	2	Z					1	11
3	CH7			lĩ	OY		11				11
in a	CH7						1 1				
rinted	CH7 CH8	RKE1772	Cover, Gyro Antenna	1	1 1		11	1	i e	1	1 1
rinted in	CH7 CH8	RKE1772 XAMR46T200	Cover, Gyro Antenna Pilot Lamp, Dial Light, 6V 40mA	1	X					1	
RD ® X	CH7 CH8	RKE1772	Cover, Gyro Antenna	1	1 1						
RD (SXG rinted in Ja	СН7 СН8	RKE1772 XAMR46T200 RSM2605B-K	Cover, Gyro Antenna Pilot Lamp, Dial Light, 6V 40mA Meter, Tuning & Battery	1	X						
RD ® XG/3 rinted in Japa	СН7 СНВ	RKE1772 XAMR46T200	Cover, Gyro Antenna Pilot Lamp, Dial Light, 6V 40mA	1	X X						
RD (XG/XI Printed in Japan	CH7 CH8	RKE1772 XAMR46T200 RSM2605B-K	Cover, Gyro Antenna Pilot Lamp, Dial Light, 6V 40mA Meter, Tuning & Battery	1	X X						

	······································		9						£		<u> </u>	XG/XI Japan
								τ	Jack, Earphone or EXT, Speaker	влатоо		S d
	1						X	T.	Meter, Tuning & Battery	RBM2605B-K		ΧŢ
0	- 1			•			X	T	Pilot Lamp, Dial Light, 6V 40mA	VAMR46T200		⊕.⊑
1		1	•				YO	τ.	Cover, Gyro Antenna	EKETALS	СН <i>в</i> СН <i>в</i> СН <i>в</i>	6 3
· ·	ı	1					Z	S	Quahlon, Gyro Antenna	Z986AHA	CHO	7 2
							.ZO	τ	Circrip, Cyro Antenna Case M'tg	XAC9FZ	CH6	=
-	- 1						ZO	3	Washer, dyro Antenna Case M'tg	ниесогт	ОНБ	"
	.						. 20	τ	Washer, Cyro Antenna Case M'tg	RUS238Z	CHT	ŀ
i	- 1	1				1	. :	1		(HAESETTSON)		ľ
				•		1 .		(T)	Shaft, Gyro Antenna Case	Order	CH3-2	
		-	/fama = fama\\max =		'	1	1	(T)	Case, Gyro Antenna	Not Available,	СНЗ-Т	
	YO	T	Gift Box (Only for Italy)	RPK401Y	P5	1.	XO	τ	Gyro Antenna Case Assembly	RYE SF130N	CH2	
	ÃO	τ	Instruction Book Gift Box	RPK401Z	5 2		Z	τ	Bracket, Stopper	Bue914	CH2-4	•
	~	1	dooff golthurten!	ROX5943Z	₽₫	1	ZO	τ	Stopper, Gyro Antenna	Z827AHA	CHS-3	
		(t)	Pad, Right Side	Order RPN9175Z		1		(-)		(HXETE1720N		
		(T)	Pad, Left Side		P2 P3	ļ. ·	1	(T)	Indicating Plate	Order	CHS-2	
	Z	τ	Pad Complete	RPN91762		1	XO	(I) T	Gyro Antenna Base Assembly Base, Gyro Antenna	(Not Available,	CHS-1	
	Z	τ	Polyethylene Cover	RPP192Z	τа	1	î	Holl		HDZOPA	ону Сн <i>1-</i> та	1
		I	L				ÃO	S	Spring, Drum	RDS40604A	OHT-TO	1
			PACKING MATERIALS	1 9 1, 51			YO	T	Drum(Large), Dial	RDD304Z	CHT-T2	l
· · · · · · · · · · · · · · · · · · ·						1	Ż	I	Washer, Drum (RDD200Z) M'tg	XWC3B	at the	1
1		_	14 <u>2</u> b			i	Z	T	Screw, Drum (RDD200Z) M'tg	XIM3+10E	CHT-T4 (Fig. 12)	
	YO	τ	Jieg Beit	RQC9011Z	SA	İ	Z	τ	Circrip, Tuning Shaft	XUCRSFY	(01 14) 11 111	
on the	^^	τ	Power Cord, AC	A-ZOZ-K	τv	1	AO	τ	Shaft, Tuning	Z6708Tah	онт-та	
	^	τ	Earphone, Imp. 6th	XEH1A1-P		1	Z	8	Shaft, Pulley	RDY31A	снт-тѕ	l
			VCCE220BIEZ		L		A	T	Pulley, Dial	RDR20-3	снт-тт	٠.
			ACCECEODIEC			1 .	٨	T.	Pulley, Dial	RDR21-1	CHT-TO	
l.	- 1	1 1	•			1		I	Drum (Small), Dial	RDDSOOZ	СНТ-8	,
1	- 1	1 1					. 1	(I)	Spring, dear (Low Frequency Side)	if)	СНТ-8	
	- 1		•	٠.			- 1	(T) (T)	Gear, Low Frequency Side	· ·	CHT-2	
	Z	τ	Screw, Dial Drum M'tg	до+92ихх	CH19(Fig.4)		'	(T)	Circrip, Gear M'tg	OVERTOCET ACTIV	CH7-6	
			91, N	-0.0011111	(, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			(1)	Gear (Large), Dial	Order BYDF1130LBXG	9-тно	
	Z	τ	Screw, dyro Ant. & Dial Base	M8+5WTX	CHTO(LIE 2)	1 2 2 2	*	(T)	Gear, Roller (High Frequency Side)		CHT-#	
	_ []	_	81.N				'.	(T)	Shaft, Gear (Low Frequency Side)	-14-11	CH1-2	
	Z	3	Screw, dyro Ant. & Dial Base	H8+ENTX	CH17(Fig.5)			(8)	Roller, Dial		снт-г	
	Z	τ	Screw(Red), Chassis M'tg	XTW3+10ER	CHIS(FIR.2)			(T)	Base, Dial		снт-т	
	z	S	Borew (Red), Chassia M'tg Borew (Red), Chassia M'tg	XTW3+12ER	CHID(Fig.2)		XO	τ	Dial Assembly	RYDF1130LBXG	СНТ	
	z	2	Screw(Red), Chassis M'tg	AEGS+ENTX	CHIF(FIR.2)					L		
	_	-	Belector & etc. M'tg	XTN3+10BR	CHI3(Fig.2)		N.	,	CHYRRIS			
	Z	g	Washer, Fine Tuning, Band	8VWX				T				
			Control M'tg	DAMA				1			· · · · · · · · · · · · · · · · · · ·	
	Z	2	Nat (Red), Base, Treble & Volume	хизви	CHIS(LIE 2)	1	z	g	Screw, Cabinet Back Cover M'tg	XTB3+45BFN	CV76	
			Bejector M.tg		(2 ,2,7,1,2)		ž	t	Screw, Teleacopic Ant. M'tg	XXN3+F68	CA18	
	Z	8	hut, Fine Tuning & Band	88NX	CHII (Fig. 6)		- 1	1 .	M'tg	COULTINAL	0140	
	Z	8	Screw, Transformer M'tg	XTW3+6L			z	τ	Screw, Bracket (Telescopic Ant.)	HR+CM.I.X	CVIA	
	Z	ટ	Screw, Timer M'tg	ASI+ENTX]	Terminal	H8+entx	2115	
	4	8	Spacer, Timer	XRY35X7	·	l.	Z	S	Screw, Dial Light Switch	XTN23+6B	CVTE	
	ZO AO	2	Rubber Cushion, Timer	RHG532Z		1	ZO	S	Latch, EXT Ant. Terminal	SHRA403	CALS	
	zo	8	Heat Bink, Transistor Indicating Plate, Band Belector	RGK697ZK	СНТО		XO	τ	Knob, OM/OFF Timer	Z9688H	₽¥7₽	
	ZO	ť	Bracket, Radio Phono Selector Heat Sink Translator	RMY90Z	6Н9	I	XO	τ	Knob, Band	RBS952K	CALS	
	1	t	Jack, Phono & Rec Out	By B		1	XO	2	Knob, Volume, Bass & Treble	RB394Z	CALL	9
		τ	COVET, EXT. POWET SOUTCE Jack	RIEIOZ		1	XO	I	Knob, Pine Tuning	RBN352Z	TIVO	301
mm	1 X	τ	Jack, EXT. Power Bource	H-Z0211A			XO	I	Knob, Tuning	RBN336Z	CALO	-
		300		11 AVELLO			XO	τ	Button, Dial Light Switch	RBC89Y	6V0	RF-1
Renarks	\dashv	Per	Part Name & Description	Part No.	Ref. No.			198	Part Mame & Description	Part No.	Hef. No.	U R
-			,		[BRIBER	≱4 I	LAIL	I metalinent's and M band	OM STOCK	OM DOE H	14.21

Schematic Diagram-Model RF-1130LB



13. 题 Indicates that only parts specified by the manufacturer

be used for replacement in critical circuits.

